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TITLE: Electrostatic image belt
loop conveyor for colour
printer - uses web-edge
sensors to control steering angle
of loop conveyor to provide
zero cross-tracking velocity

PRIORITY-DATA: 1995RD-0370035 (January 20, 1995)

PATENT-FAMILY:

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ABSTRACTED-PUB-NO: RD 370035A

BASIC-ABSTRACT:

The image loop conveyor uses a simple two point sensor which detects that a web edge is in one of the zones. The zones are in a dead band, too far forward, or too far back. Automatic negative feedback is provided by an upstream steering axis. A distance between a steering roller and the

axis is set to a given value. The steering roller angle is adjusted to give a zero crosstracking velocity.

Steering angle is adjusted slightly only in response to long term crosstrack drift of the web as detected by the two sensors. The sensors defined the dead band within which any variation in web edge position is ignored.

ADVANTAGE - Optimises distance between steering roller and steering axis, thereby reducing need to adjust roller.

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Title - TIX (1) :

Electrostatic image belt loop conveyor for colour printer - uses web-edge sensors to control steering angle of loop conveyor to provide zero cross-tracking velocity

